

Name:

Date:

# Factors vs. Multiples

- a) List 10 multiples of 6 that are less than 100.  
b) List 10 multiples of 15 that are less than 200.  
c) List 5 multiples of 250 that are greater than 1,200.
- a) What is the biggest multiple of 4 that is less than 100?  
b) What is the smallest multiple of 100 that is more than 1000?
- Fill in with the words "multiple(s)" or "factor(s)".

>> 25, 50, 75, 100, 125, and 150 are \_\_\_\_\_ of 25.

>> 1, 2, 5, 10, 25, and 50 are \_\_\_\_\_ of 50.

>> Each number has an infinite number of \_\_\_\_\_.

>> Each number has a greatest \_\_\_\_\_.

>> If a number  $x$  divides into another number  $y$ , we say  $x$  is a \_\_\_\_\_ of  $y$ .

- Draw a line from each number to the correct box  
- EXCEPT there's one "**black sheep**" there!  
Which number is BOTH a factor and a multiple of 24?

240 8 48 4 96 24 1 2

a factor of 24

a multiple of 24

120 3 30 72 144 6 12

- Find all the factors of the given numbers.

a. 26

b. 32

c. 40

d. 50

- a) Find five numbers that are multiples of both 10 and 3.  
b) Find five numbers that are multiples of both 6 and 9.  
c) Find five numbers that are multiples of both 4 and 7.  
d) Find five numbers that are multiples of both 8 and 12.

- 24 is divisible by 1, 2, 3, 4, 6, 8, 12, and 24 - that is, it has 8 divisors!  
Find a number that has even more divisors (it has 9 divisors) and is less than 40.

- Explain the words with the help of examples.

dividend \_\_\_\_\_

quotient \_\_\_\_\_

factor \_\_\_\_\_